

(2)

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/854,133

DATE: 05/31/2001

TIME: 15:12:18

Input Set : A:\475c10.app.txt

Output Set: C:\CRF3\05312001\I854133.raw

ENTERED  
See p.5

```

3 <110> APPLICANT: Lodes, Michael J.
4      Mohamath, Raodoh
5      Henderson, Robert A.
6      Benson, Darin R.
7      Secrist, Heather
10 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
11      THE THERAPY AND DIAGNOSIS OF LUNG CANCER
14 <130> FILE REFERENCE: 210121.475C10
C--> 16 <140> CURRENT APPLICATION NUMBER: US/09/854,133
17 <141> CURRENT FILING DATE: 2001-05-11
19 <160> NUMBER OF SEQ ID NOS: 735
21 <170> SOFTWARE: FastSEQ for Windows Version 3.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 339
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapien
28 <400> SEQUENCE: 1
29      gtactcagac aggatagtc tcatgtagca caaagcamat cctgtttcta tacttgtagt      60
30      ttgctctcac tcagtggcat ratcattact atacagtgtga gaatgttrtt atgtagcata      120
31      gatgtggggt ctctagccca cagctctsta cctttgtcta gcactcctgt cctcatacct      180
32      ragtggcctg tccatcagca tgtttctcat ctactttgct tgtccagtcc actgtgggtcc      240
33      tcccttgccc tctcccttat gtggcagagt ggaaccagct gtcctgagac ttgagttcaa      300
34      catctgggtc gcccatytc atgtttgtgg tctgagtac      339
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 698
38 <212> TYPE: DNA
39 <213> ORGANISM: Homo sapien
41 <220> FEATURE:
42 <221> NAME/KEY: misc_feature /
43 <222> LOCATION: (1)...(698)
44 <223> OTHER INFORMATION: n = A,T,C or G
46 <400> SEQUENCE: 2
47      gtactcagac cagcactgca ttttctccac tgctgacggg tctaatacca gctgcttccc      60
W--> 48      tttcttgagg gcagagctng tgaccttgag aaagtgacct gtgaccatca tgtgggtagt      120
49      gagctgctgc aaggtgtcat gggagctccc acactccatg cactttwaga tctgggactt      180
50      gcaggcctca ractgccagg tgtagctcgc tccattttgg tagccatagc gttgtttgga      240
51      ggacaactgc aagttggcgt tcttctgaga agaaaaagaa tctgcaaaag atcctgtggt      300
52      tgaatcgggg gaacacggcc gattgacatc aaaaacgcgt ttcttagccc gggtgaccat      360
53      tttcgaggaa atggttgagg actggctcct tcaaaggcac tttttggtta tgttttgttt      420
W--> 54      yaatcatgtk gacgctccaa tcttggragg gaatcgaang rantcncnc caaaacatrc      480
55      stttcagraa ccttttgarc atcctctttt ttccgtrtcc cggmaargcc cytttccckg      540
W--> 56      ggctttgaaa wyagcctsgt tgggttctta aattaccart ccacnwggtg gaattccccg      600
W--> 57      ggccccctgc ccggttccaa ccaatttttg graaaacccc cncanscctg tkggantgcn      660
W--> 58      acaacntggn ntttttctntt tcgtgntccc ctngaacc      698
60 <210> SEQ ID NO: 3
61 <211> LENGTH: 697
62 <212> TYPE: DNA

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63 <213> ORGANISM: Homo sapien
65 <220> FEATURE:
66 <221> NAME/KEY: misc_feature
67 <222> LOCATION: (1)...(697) /
68 <223> OTHER INFORMATION: n = A,T,C or G
70 <400> SEQUENCE: 3
71 gtactcagac cccaacctc gaacagccag aagacagggt gtctcctggg ccttggacac      60
W--> 72 agccngccag gccattgaag ganaagcaaa gacgaagcga accatctctc tccattgtgg      120
W--> 73 gggccaagta gctgcantan ccttcagtc cagttgcatt gggttaaaga gctcatacat      180
W--> 74 actatgtgtn aggggtacag aagcttttcc tcatagggca tgagctctcc nagagttgac      240
W--> 75 cttttgcctn aacttgggggt ttctgtgggt cataaagttt ggatatgtat tttttttcaa      300
W--> 76 atggaanaaa atccgtattt ggcaaaaaga ctccaggggg atgatactgt ccttgccact      360
W--> 77 tacagtccaa angatnttcc ccaaagaata gacatttttt cctctcatca cttctggatg      420
W--> 78 caaaatcttt tatttttttc ctttctcgca ccnccccaga cccttnnag gttnaaccgc      480
W--> 79 ttcccatctc cccatttcca cacgatnttg aattngcann ncgttgntgg tcgggtcccn      540
W--> 80 nccgaaaggg tntttttatt cggggtncgt anttnnnaac cctnagttg aatccgcggg      600
W--> 81 gcggccnngn gggttnnacc atgntgggga naactncccn ccgcgnttgg aatgccanag      660
W--> 82 ccttgaaant tttcttttgg tcgccccccn gagatcc      697
84 <210> SEQ ID NO: 4
85 <211> LENGTH: 712
86 <212> TYPE: DNA
87 <213> ORGANISM: Homo sapien
89 <220> FEATURE:
90 <221> NAME/KEY: misc_feature
91 <222> LOCATION: (1)...(712) /
92 <223> OTHER INFORMATION: n = A,T,C or G
94 <400> SEQUENCE: 4
W--> 95 gtactcagac aaccaatagg tgtgttyctc anatctgaaa cacaaaaaga ttctagctna      60
W--> 96 taatgttsaa tgggttgaggg tttaagtgat cttgggtatgt tngatttagc agcgatnggc      120
97 cgggtgcggt ggctcacgca tgtatcccag cactttggga ggccgaggca ggaggatcac      180
W--> 98 ctgaggtcag gagtttgaga ccagcctggc cgacatggtn aaaccccgtc tctactanga      240
W--> 99 atacanaaat tagcccgggc atagtggcgc gtgcctrtga cctcsgctac tttggggatt      300
100 ctctgagga agaattgctt gaactcaggg aagtggargt ttgcagtgag cttaaataca      360
101 gccactggca ctcccagcct gggktaacag agccamgact ctkgccgaaa aaaaaraama      420
W--> 102 cgacggagaa nmagntctgt tattccatgg gaaattkgaa tttccttcyt tkaaatatct      480
W--> 103 taaaatnggt cctcctwaaa aaagttcggc tggggccccgk tggtcacat tttkttaycc      540
W--> 104 cycccccttt tggggarggc caarggccgg kttgawtnc ccttgagggg ccanaactcc      600
W--> 105 agnaaccrgn cccggggccar smgwkkgstr armccctttc cyyccmaraa aawwcsmaaa      660
106 wwttyccsc cygsykggct ggasckggt myyyyygmtm csyagcttgc tt      712
108 <210> SEQ ID NO: 5
109 <211> LENGTH: 679
110 <212> TYPE: DNA
111 <213> ORGANISM: Homo sapien
113 <220> FEATURE:
114 <221> NAME/KEY: misc_feature
115 <222> LOCATION: (1)...(679) /
116 <223> OTHER INFORMATION: n = A,T,C or G
118 <400> SEQUENCE: 5
W--> 119 gtactcagac cacctcacat gcagggttag aaacatggag tgtgcggcag catcctcctc      60

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```

120  acatcccttt  gtgagcacgg  ctgctccgga  atactgacca  tctgggctag  cacgacctaa  120
121  cagaggggttc  tgcaggatgt  gctattttta  agcagctggg  tgcaacttgt  gaaaacggga  180
W--> 122  atctngaagc  agaacatgtn  atcagcgatg  gctgggattg  gtggacagga  ttgacaggag  240
123  tatttgaggc  tctaccaggc  ctgtctacag  gacagcttca  tcgaagggac  attttttaac  300
W--> 124  ctgttatttt  anatnccaca  tatntttttt  aatgctnaag  catacagggt  gaatttctgg  360
W--> 125  atcgtaacta  ctagtgactt  ctgagggtta  cagttngaag  atgttctcnn  aggtttatca  420
W--> 126  agttntgtta  ttgatgatng  gtaatctaca  cctctggaag  ctgtngaag  tgaaaaagat  480
W--> 127  ncntncanct  gaccagtttg  nagggcactc  tcttctggna  agnaatccgn  ccaaaaaaat  540
W--> 128  tgtttcnagg  gggcntgggg  ggtttaaaaa  aatgtttctn  ttncntaaa  aatgtttacc  600
W--> 129  cnnctattga  aaaaatgggg  gtcgnggggg  gcttnaaatc  cccnanttnt  gaatntnta  660
W--> 130  tccggaanct  tggtttccc  679
132 <210> SEQ ID NO: 6
133 <211> LENGTH: 369
134 <212> TYPE: DNA
135 <213> ORGANISM: Homo sapien
137 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <222> LOCATION: (1)...(369) /
140 <223> OTHER INFORMATION: n = A,T,C or G
142 <400> SEQUENCE: 6
143  tcagtccagt  catgggtcct  ataagagaag  tcactctgtg  agtttccatg  gaggaagaaa  60
144  aagcttcatt  tctttaccct  gcagcaacag  cggagggagg  gagagcctat  cttctttgca  120
W--> 145  aattcattaa  ctttgtgggt  gaagggagca  gcgtcngaaa  ctgcttttagc  acagtgggag  180
146  gaaaacaaac  agattcatct  ccggaaccca  aaggaaaggg  tragtgggtt  tttattagcc  240
147  agctgtatcc  tagatggtca  atttccagtg  gatgaataca  ccttacgtac  gtttctcttg  300
W--> 148  cttcctacct  nggcctgatc  agctnggcac  ttraatcatt  ccgtnggggt  wgctgtnaca  360
149  ctggactga  369
151 <210> SEQ ID NO: 7
152 <211> LENGTH: 264
153 <212> TYPE: DNA
154 <213> ORGANISM: Homo sapien
156 <220> FEATURE:
157 <221> NAME/KEY: misc_feature
158 <222> LOCATION: (1)...(264) /
159 <223> OTHER INFORMATION: n = A,T,C or G
161 <400> SEQUENCE: 7
W--> 162  tgctggatra  gggatggggc  acgggagcac  agatmgactt  taactgcccc  cacgttntcm  60
163  aggaaaggat  tacaggcgtg  agccactgcg  cccggcctct  tctccacttt  cataggttcc  120
W--> 164  agtctctggt  tcttctttct  cagtttggtg  tttttgcttc  ttaaamatg  gagatnagaa  180
165  tgaacactac  actcggaatc  aggaagccct  gcctggcgcc  tctgtcacct  gtctaggggc  240
166  ttcttctcac  tgagtcaccc  agca  264
168 <210> SEQ ID NO: 8
169 <211> LENGTH: 280
170 <212> TYPE: DNA
171 <213> ORGANISM: Homo sapien
173 <220> FEATURE:
174 <221> NAME/KEY: misc_feature
175 <222> LOCATION: (1)...(280) /
176 <223> OTHER INFORMATION: n = A,T,C or G

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178 <400> SEQUENCE: 8
W--> 179  acctcaactg cccanaacan aactgttgta caagatttga ggattttaaca atatttcaca      60
W--> 180  tgaaatatatt cagacctacg ngagggctta aagacnaatt aaatgagcac cngtgtgccc      120
W--> 181  accgcccna ttaagaatta gagcaagcag tgaggtgaag ccttgtcctt gcttttaaca      180
W--> 182  tagaaagtga tccaaattca ccaaacttga cttnnggttt tgcagtgtgg cctcctgatt      240
W--> 183  ctagacnctg gcgaacatt tgatgggcaa aaaaaaaaaa      280
185 <210> SEQ ID NO: 9
186 <211> LENGTH: 449
187 <212> TYPE: DNA
188 <213> ORGANISM: Homo sapien
190 <220> FEATURE:
191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: (1)...(449) /
193 <223> OTHER INFORMATION: n = A,T,C or G
195 <400> SEQUENCE: 9
W--> 196  tegtcaactc caggatggct ttgaaaatna atggacacag atctctcctg ttttgatrat      60
W--> 197  ntgcagtgt natgactggc tttgcagtn attttgattc aggcaacaga tgttcctttt      120
198  ggttccctgt ctcccatggg cgtcatttca tgttgctctc tgccttcccc cagatattct      180
199  aagttcagga cacaagcttc tggcccatgc agagcagagg ccatgagggg tcacagcatg      240
W--> 200  ggtacgggag gaaacactgg gctnaccag atnctggact tgagtcttgc ctctgctgct      300
201  tgctgcacag cttctgtcat ggtgctaaac ctgtgacctg cctcacaggc ttagagcatg      360
W--> 202  cccgtagaag tactctnaac taaratgctt tccacaaatg agatgggttc atgaaaactt      420
203  caaatagagg gcctgggcaa aaaaaaaaaa      449
205 <210> SEQ ID NO: 10
206 <211> LENGTH: 538
207 <212> TYPE: DNA
208 <213> ORGANISM: Homo sapien
210 <220> FEATURE:
211 <221> NAME/KEY: misc_feature
212 <222> LOCATION: (1)...(538) /
213 <223> OTHER INFORMATION: n = A,T,C or G
215 <400> SEQUENCE: 10
216  tttttttttt ttcccaaagg cctcaraaca ctagtcttct aattccaagc agaaagttac      60
217  atccgccggg atacatgcca cttggtttga taaatcaaaa tacagcatcc ttcagatccc      120
W--> 218  tttgctgagc aatacaatta tttgtatatg ttactttttt ttctgtttgg ctnaaagatt      180
W--> 219  tgatatgagc tgaggaaaat gaagccntta ctgctatnag atctnatccc tttccaccac      240
W--> 220  ctttcaggga tnttggcact gcayatattc agaattcccc nnagtcgctn gtgataaaaa      300
221  tgtcttcaga gatggcagaa tatgtttcct ttggtacatg ttcattaaaa atatacacgt      360
W--> 222  gctcactact gtggatatgt atgtnttgac cgatnacaca ggctgattta gggaagagat      420
W--> 223  aaaagcacac ttngaattta ttagccttcc accnagacta anattctgaa attaagaatg      480
W--> 224  tattccttgg tcaacaattt tcctcttctc ttagccctct tacattgtan tggactga      538
226 <210> SEQ ID NO: 11
227 <211> LENGTH: 543
228 <212> TYPE: DNA
229 <213> ORGANISM: Homo sapien
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (1)...(543) /
234 <223> OTHER INFORMATION: n = A,T,C or G

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Input Set : A:\475c10.app.txt

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```

236 <400> SEQUENCE: 11
237 tttttttttt ttgccacag ctgccatctt tgtgtgataa ggccaacctt ctatgggaat      60
238 caaccctcgc catcccagca aatcccctct ctccttctc atgggagtgc cttgtattca      120
W--> 239 tcaggcatct gggacttgat gtgggtntgg gatttgaaat cagagcacct nggtctctst      180
W--> 240 caccattctn tcacttatta gctctnacct tgggtnaata cctgccttag tgtcntaggt      240
W--> 241 acaatatgaa tattgtctat ttctcaggga ttgcaatgac nagtnnatna gtgcatgaga      300
W--> 242 gggtaaaacc acagggtact ccgctcctcc naagaatgga gaatttttcc tagaagccca      360
W--> 243 natntgcttg gaagggtggc caccnagagc cnaaatcttc ttttatttnc cactgaangc      420
W--> 244 ctaagaggna attctgaact catccccna tgacctctcc cgaatmagaa tatctctggc      480
W--> 245 acttaccata ttttcttgcc ctcttcact tacnaaactc ctttattcct taacnggacg      540
246 aaa                                                                    543
248 <210> SEQ ID NO: 12
249 <211> LENGTH: 329
250 <212> TYPE: DNA
251 <213> ORGANISM: Homo sapien
253 <400> SEQUENCE: 12
254 cgatgacttg ggcagtgagt gggcctcctg ccagggtggca gggcacagct tagaccaaac      60
255 ccttggcctc cccctctgc agstacctct gaccaagaag gaaactagca agcctatgct      120
256 ggcaagacca taggtggggg gctgggaatc ctcggggccg gctggcacc actcctgggtg      180
257 ctcaaggagg agaccactt gttcagatgc atrggcctca ggcggttcaa ggcrgtctta      240
258 gagccacaga gtcaaataaa aatcaatttt gagagaccac agcacctgct gctttgatcg      300
259 tgatgttcaa ggcaagttgc aagtcacgc                                                                    329
261 <210> SEQ ID NO: 13
262 <211> LENGTH: 314
263 <212> TYPE: DNA
264 <213> ORGANISM: Homo sapien
266 <220> FEATURE:
267 <221> NAME/KEY: misc_feature
268 <222> LOCATION: (1)...(314) /
269 <223> OTHER INFORMATION: n = A,T,C or G
271 <400> SEQUENCE: 13
272 cgatgacttg caccggggag ctgtgacagt ggcctggaag cagatggcag ccccgtaag      60
273 gcgggagtgg agaccaccaa accctccaaa cagagcaaca actagtacgc ggccagcagc      120
274 tacctgagcc tgacgcccgga gcagtgggaag tcccacagaa gctacagctg ccaggtcacg      180
W--> 275 catgaaggga gcaccgtgga gaagacagtg gcccctacag aatgttcata ggttcccnac      240
W--> 276 tctnacccca cccacgggag cctgganctg cangatcccg ggggaagggt ctctctcccc      300
277 atcccaagtc atcg                                                                    314
279 <210> SEQ ID NO: 14
280 <211> LENGTH: 691
281 <212> TYPE: DNA
282 <213> ORGANISM: Homo sapien
284 <220> FEATURE:
285 <221> NAME/KEY: misc_feature
286 <222> LOCATION: (1)...(691) /
287 <223> OTHER INFORMATION: n = A,T,C or G
289 <400> SEQUENCE: 14
W--> 290 cgattacttg cacaatgcan attagaaccc aaatgaaggg tacaaccag atcttctggc      60
291 ttccagttca gtgctgctgg gtttttctta ctaaaccaaa acaatkaaga gcatagaagg      120
W--> 292 gaagagaaga ataaagtcta ttttggtctt tggtagcchg ggtaangaga atgctstcac      180

```

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

file://C:\

5/31/01



## VERIFICATION SUMMARY

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DATE: 05/31/2001

TIME: 15:12:19

Input Set : A:\475c10.app.txt

Output Set: C:\CRF3\05312001\I854133.raw

L:16 M:270 C: Current Application Number differs, Wrong Format  
L:48 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10

## VERIFICATION SUMMARY

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DATE: 05/31/2001

TIME: 15:12:19

Input Set : A:\475c10.app.txt

Output Set: C:\CRF3\05312001\I854133.raw

L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:5960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:233  
L:5963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:233  
L:6038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:238  
L:6159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245  
L:6467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:261  
L:6514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:264  
L:6702 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:275  
L:6774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:279  
L:6795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280  
L:6817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:281  
L:6839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:282  
L:6998 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290  
L:6999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290  
L:7016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:291  
L:7017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:291  
L:7030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292  
L:7035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292  
L:7036 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/854,133

DATE: 05/31/2001

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Input Set : A:\475c10.app.txt

Output Set: C:\CRF3\05312001\I854133.raw

L:7037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292  
L:7053 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:293  
L:7055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:293  
L:7057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:293  
L:7059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:293  
L:7072 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294  
L:7076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294  
L:7080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294  
L:7081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294  
L:7111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296  
L:7112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296  
L:7115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296  
L:7116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296  
L:7146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298  
L:7147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298  
L:7148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298  
L:7149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298  
L:7191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:301  
L:7193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:301  
L:7194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:301  
L:7195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:301  
L:7196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:301  
L:7197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:301  
L:7210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302  
L:7212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302  
L:7213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302  
L:7214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302  
L:7215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302  
L:7216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302  
L:7217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302  
L:7219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302  
L:7255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304  
L:7293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:306  
L:7307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307  
L:7308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307  
L:7311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307  
L:7313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307  
L:7314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307  
L:7338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:308  
L:7384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:311  
L:7422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:313  
L:7423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:313  
L:7424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:313  
L:7425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:313  
L:7426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:313  
L:7427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:313  
L:7428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:313  
L:7450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:314  
L:7472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:315



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Input Set : A:\475c10.app.txt

Output Set: C:\CRF3\05312001\I854133.raw

L:7523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:318  
L:7524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:318  
L:7562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:320  
L:7563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:320  
L:7580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:321  
L:7594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:322  
L:7595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:322  
L:7596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:322  
L:7597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:322  
L:7598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:322  
L:7601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:322  
L:7621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:323  
L:7622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:323  
L:7638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:324  
L:7639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:324  
L:7641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:324  
L:7664 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:325  
L:7677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:326  
L:7679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:326  
L:7714 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:328  
L:7731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:329  
L:7733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:329  
L:7734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:329  
L:7735 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:329  
L:7737 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:329  
L:7755 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:330  
L:7756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:330  
L:7757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:330  
L:7758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:330  
L:7774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:331  
L:7775 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:331  
L:7776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:331  
L:7778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:331  
L:7832 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:334  
L:7833 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:334  
L:7871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:336  
L:7890 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:337  
L:7912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:338  
L:7913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:338  
L:7934 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:339  
L:7954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:340  
L:7989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:342  
L:8024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:344  
L:8025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:344  
L:8059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:346  
L:8155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:353  
L:8156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:353  
L:8157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:353  
L:8158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:353

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Input Set : A:\475c10.app.txt

Output Set: C:\CRF3\05312001\I854133.raw

L:8159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:353  
L:8173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:354  
L:8174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:354  
L:8175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:354  
L:8176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:354  
L:8177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:354  
L:8197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:355  
L:8198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:355  
L:8199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:355  
L:8218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:356  
L:8238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:357  
L:8240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:357  
L:8241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:357  
L:8259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:358  
L:8260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:358  
L:8277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:359  
L:8278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:359  
L:8279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:359  
L:8297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:360  
L:8299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:360  
L:8300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:360  
L:8301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:360  
L:8318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361  
L:8320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361  
L:8321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361  
L:8341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362  
L:8342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362  
L:8440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:369  
L:8456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:370  
L:8457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:370  
L:8458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:370  
L:8475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:371  
L:8477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:371  
L:8479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:371  
L:8493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:372  
L:8551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:376  
L:8554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:376  
L:8624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:381  
L:8754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:389  
L:8756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:389  
L:8757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:389  
L:8758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:389  
L:8759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:389  
L:9251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:399  
L:9252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:399  
L:9253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:399  
L:9254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:399  
L:9281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:401  
L:9366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:406

## VERIFICATION SUMMARY

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Input Set : A:\475c10.app.txt

Output Set: C:\CRF3\05312001\I854133.raw

L:9414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:409  
L:9415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:409  
L:9416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:409  
L:9450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:411  
L:9515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:415  
L:9530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:416  
L:9531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:416  
L:9532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:416  
L:11827 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444  
L:11828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444  
L:11833 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444  
L:11836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444  
L:11871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:446  
L:11872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:446  
L:11873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:446  
L:11875 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:446  
L:11877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:446  
L:11879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:446  
L:11881 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:446  
L:11902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:447  
L:11903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:447  
L:11936 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:449  
L:11939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:449  
L:11940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:449  
L:11945 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:449  
L:11959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:450  
L:11983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:451  
L:11988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:451  
L:11989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:451  
L:11991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:451  
L:11992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:451  
L:12006 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:452  
L:12030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:453  
L:12053 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:454  
L:12084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:455  
L:12086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:455  
L:12119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:457  
L:12124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:457  
L:12186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:460  
L:12200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:461  
L:12202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:461  
L:12203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:461  
L:12204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:461  
L:12205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:461  
L:12207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:461  
L:12208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:461  
L:12209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:461  
L:12242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:463  
L:12250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:463

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PATENT APPLICATION: US/09/854,133

DATE: 05/31/2001

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Input Set : A:\475c10.app.txt

Output Set: C:\CRF3\05312001\I854133.raw

L:12281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:465  
L:12282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:465  
L:12283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:465  
L:12284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:465  
L:12285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:465  
L:12287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:465  
L:12319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:467  
L:12320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:467  
L:12321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:467  
L:12322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:467  
L:12323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:467  
L:12339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:468  
L:12346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:468  
L:12360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:469  
L:12361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:469  
L:12369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:469  
L:12383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:470  
L:12385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:470  
L:12386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:470  
L:12390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:470  
L:12391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:470  
L:12392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:470  
L:12405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:471  
L:12410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:471  
L:12427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:472  
L:12437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:472  
L:12451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:473  
L:12452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:473  
L:12453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:473  
L:12454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:473  
L:12456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:473  
L:12474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:474  
L:12482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:474  
L:12496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:475  
L:12518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:476  
L:12560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:478  
L:12570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:478  
L:12604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:480  
L:12605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:480  
L:12606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:480  
L:12722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:487  
L:13083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:512  
L:13084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:512  
L:13112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:514  
L:13161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:517  
L:13197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:519  
L:13198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:519  
L:13199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:519  
L:13201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:519

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/854,133

DATE: 05/31/2001

TIME: 15:12:19

Input Set : A:\475c10.app.txt

Output Set: C:\CRF3\05312001\I854133.raw

L:13202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:519  
L:13203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:519  
L:13204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:519  
L:13244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:522  
L:13251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:522  
L:13279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:524  
L:13298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:525  
L:13357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:529  
L:13380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:530  
L:13398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:531  
L:13399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:531  
L:13400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:531  
L:13427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:533  
L:13445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:534  
L:13448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:534  
L:13486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:537  
L:13531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:540  
L:13605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:545  
L:13633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:546  
L:13791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:558  
L:13792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:558  
L:13793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:558  
L:13795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:558  
L:13812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:559  
L:13825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:560  
L:13829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:560  
L:13830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:560  
L:13852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:561  
L:13877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:562  
L:13918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:565  
L:13957 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:567  
L:13958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:567  
L:13959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:567  
L:13960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:567  
L:13978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:568  
L:13979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:568  
L:13980 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:568  
L:13981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:568  
L:14053 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:573  
L:14100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:576  
L:14101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:576  
L:14158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:580  
L:14159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:580  
L:14167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:580  
L:14552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:597  
L:14667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:605  
L:14727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:609  
L:15160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:636  
L:15963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:687



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/854,133

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Input Set : A:\475c10.app.txt

Output Set: C:\CRF3\05312001\I854133.raw

L:16061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:694  
L:16062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:694  
L:16063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:694  
L:16064 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:694  
L:16469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:722  
L:16471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:722